

## **ENGINEERING CHECKS**

LPD CLASS (Rev 6)

### AUXILIARIES (AX) PRE-UNDERWAY PHASE

[ LPD CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual Support		NAVSEA/OEM TECH MANUAL
Inspect PMS Support		5811/802
		A-005/255
		A-005/418
Inspect posted operating/safet	ty instructions	
and lubrication data		NAVSEA/OEM TECH MANUAL
Test Operate Anchor Windlass	s with No-Load	A-005/418 U-4
		5811/802 R-10
Inspect Fluid Samples		NSTM 262
Inspect for proper HPU fluid le	vels	5811/802 R-2
		NAVSEA/OEM TECH MANUAL
Inspect anchor windlass lubric	ation IAW PMS	5811/802 R-2
requirements		NAVSEA/OEM TECH MANUAL
Inspect handbrake is adjusted	IAW PMS	
requirements (recommend with	in 30 days of	5811/802 R-2
MI)		NAVSEA/OEM TECH MANUAL
Inspect magnetic brake is adju	sted IAW PMS	
requirements (recommend within 30 days of		5811/802 R-2
MI)		NAVSEA/OEM TECH MANUAL
Inspect brake linkage assembly	1	5811/802 R-2
		NAVSEA/OEM TECH MANUAL
Test wildcat/windlass solenoid	l switch	n/a
Inspect Gauge Calibration		5811/802 R-2
		CRL
Inspect relief valve data is proj	perly posted (if	
data is not posted, then ship m	nust conduct	
relief valve test)		NAVSEA/OEM TECH MANUAL
Inspect all flex hoses are properly tested and		NAVSHIPYD PUGET SOUND
labeled		261925Z APR99
Inspect flange shields		NSTM 505
Inspect for adequate nitrogen of	charge for	
windlass		n/a
Inspect speed limiter		n/a

Inspect for adequate LP air pressure for chain	
compressor	n/a
Inspect filter differential indications	NAVSEA/OEM TECH MANUAL
Inspect HPU mechanical seal leakage	NSTM 503
Inspect Servo/Replenishment pressures during	
wildcat operation	5811/802 R-10
Inspect Chain Compressor operation	n/a
Inspect reduction gear lubrication	
(gauges/sight flows/dipsticks)	NAVSEA/OEM TECH MANUAL
Test crossover valve operation	EOSS
	NAVSEA/OEM TECH MANUAL
	5811/802 R-10

5600 / 5611	STEERING (Inport System Verification)	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EOSS Support		NAVSEA/OEM TECH
		MANUAL and EOSS
Inspect PMS Support		5611/817
		A-001/240
Inspect operating/safety instru-	ctions and hydraulic	NAVSEA/OEM TECH
system/electrical wiring diagram	ns are posted	MANUAL
Inspect fluid samples		A-001/240 S-4R
		NSTM 262
Inspect static mechanical check	S	5611/817 R-3 NAVSHIPYD
		PUGET SOUND 261925Z
		APR99
Inspect relief valve test tags are		
not, test compensator relief val		n/a
Inspect relief valve test tags are		NAVSEA/OEM TECH
not, test main relief valve setting		MANUAL
Inspect flange shields are prope	erly installed	NSTM 505
Inspect steering gear lubricatio	n	A-001/240 R-8
Inspect trick wheel assembly		A-001/240 S-3
		5611/817 R-3
Test N2 accumulator charge		A-001/240 R-3
Inspect proper fluid levels		NAVSEA/OEM TECH
		MANUAL
Inspect filter indicators		NAVSEA/OEM TECH
		MANUAL
Inspect rudder ram finish		A-001/240 R-3
Inspect rudder ram cylinders for	r leaks	A-001/240 R-3
Inspect gauge calibration		CRL
Inspect rudder stock grounding	g straps and post	A-001/240 R-10
lubrication		NSTM 262
Inspect servo/replenishment pressures are correct		5611/817 R-3
Test the rudder follow up error		
to 5 deg; 5 deg increments at 5 to 25 deg)		5611/817 R-3
Test the trick wheel stops		5611/817 R-3
Inspect the crush block clearances		5611/817 R-3
Test (inport) rudder swing checks		5611/817 R-3
Test (inport) blocking valve		NSTM 562
Test auxiliary emergency steering	ng pump	n/a
Test manual emergency steering		5611/817 R-3
Test steering casualty alarm		EOSS

Test pump remote operation and transfer of controls to pilot house	5611/817 R-3 EOSS
Test for static rudder split (pilot house in control)	n/a
Test for indicator error (pilot house in control)	5611/817 R-3 NSTM 562

5210	FIRE PUMPS (ELECTRIC and STEAM)	
Component/Sub-C	Component	Proposed Procedure
ALL FIRE PUMPS		
Inspect Tech Manual / EOSS support		EOSS
r	TT	NAVSEA/OEM TECH
		MANUAL
Inspect PMS support		5210/806
		5210/005
Inspect gauge calibration		CRL
Inspect transducer calibration		CRL
Inspect pump, motor (casing, pa	acking/mechanical	5210/806 R-3/4/10/13/18/30/33/34
seal, coupling, etc.)		NSTM 503
Inspect coupling guard		5210/806 R-3/4/33/34
		OPNAVINST 5100.19
Inspect foundation		5210/806 R-3/4/33/34
		NSTM 503
Inspect ferrous fasteners		5210/806 R-3/4/33/34
		NSTM 075, 505
Inspect resilient mounts		5210/806 R-3/10/13/18/30/33/34
		NSTM 503
		NAVSEA S9073-A2-HBK-010
Inspect grounding straps		5210/806 R-3/4/33/34
		NSTM 302
Inspect piping & supports		5210/806 R-10/13/18/30
		NSTM 505
Inspect all flex hoses are prope	rly tested/labeled	5000/009 A-1/A-2
		5000/014 A-1/A-2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect piping lagging		5210/806 R-10/13/18/30
		NSTM 505, 635
Inspect the suction strainer		EOSS
		NAVSEA/OEM TECH
TD ( 1 1 1	. 1	MANUAL
Test remote motor/hydraulic op		EOSS
suction/discharge valves, interl		5210/806 R-10/13/18/30 5000/005 S 4 A 3
Inspect local valves and remote (labeling, position indicators, et		5000/005 S-4, A-3 5000/006 2M-1, 36M-4
Inspect MHVC station oil level		3000/000 2141-1, 30141-4
periodicity	and relief valve test	
Test remote start/stop function	· · · · · · · · · · · · · · · · · · ·	EOSS
10st remote start/stop function		LOSS

Test local start/stop functions	EOSS
Inspect pump operation (design discharge pressure,	EOSS
gages, unusual noise, bearing temps, etc).	NAVSEA/OEM TECH
	MANUAL
Inspect for proper seating of check valve and no	NAVSEA/OEM TECH
reverse rotation upon securing pump	MANUAL
STEAM DRIVEN FIRE PUMPS	
Inspect lube oil filter indications and oil level	N/A
Test the over speed trip	N/A
Test the speed limiting governor	N/A
Test the turbine auxiliary lube oil pump low-pressure	N/A
automatic start switch operation	
Test combination exhaust and relief valve	N/A

5240	5240 SEAWATER SERVICE PUMPS	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual / EOSS support		NAVSEA/OEM TECH
		MANUAL EOSS
Inspect PMS support		5240/806
Inspect gauge calibration		CRL
Inspect transducer calibration		CRL
Inspect coupling guard		OPNAVINST 5100.14
Test remote start/stop function	S	EOSS
		5240/806 R-5
Test local start/stop functions		EOSS
		5240/806 R-5
Inspect pump operation/design		EOSS
unusual noise, bearing temps, e	etc.	NSTM 503
		NAVSEA/OEM Tech
		Manual
Inspect packing and mechanica	l seal leakage	NSTM 503
		5240/806 R-13
Inspect for proper seating of ch		EOSS
reverse rotation upon securing	the pump	NAVSEA/OEM Tech
		Manual
Inspect for ferrous fasteners		NSTM 075
		NSTM 505-3.1.1
		5240/806 R-5
Inspect foundation and resilien	t mounts	5240/806 R-5
		NAVSEA S9073-A2-HBK-
T ( 1''' C '	• • ,	010
Inspect condition of expansion		NSTM 505
Inspect all flex hoses are proper	ly tested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET
Towns of mining to pain		SOUND 261925Z APR99
Inspect piping lagging		NSTM 505
Inspect grounding straps		NSTM 300
Test namets mestan/by/d1:	a amata d	NSTM 503
Test remote motor/hydraulic operated		EOSS 5240/806 P. 5
suction/discharge valves, interlocks		5240/806 R-5
Inspect local valves and remote control station (labeling, position indicators, etc)		5000/005 S-5, A-3 5000/006 2M-1, 36M-4
Inspect MHVC station oil level		3000/000 2IVI-1, 30IVI-4
periodicity	and tener varve test	
periodicity		

Inspect the suction strainer	EOSS NSTM 503
Test aux seawater low pres sure alarm, start-up switch	N/A
Inspect firemain to seawater reducing station	EOSS
operation	

5512 / 5513 / 5515	LOW and MEDIUM	I PRESSURE AIR SYSTEM
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EOSS	Support	
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instruc		
Inspect compressor oil level and	l oil samples	
Test compressor pressures and	_	
Test compressor capacity contr	ol system	
Inspect compressor belt conditi		
Test compressor auto control ar	nd safety switches	
a. Operational control switch	es (115/120/125)	
b. Low oil pressure		
c. High discharge pressure		
d. High air and water temp		
Inspect all relief valve testing is	within periodicity	
Inspect location of intake/vent	supply	
Inspect receiver flask certification	on	
Test priority valve operation		
Inspect sea water cooling system		
Inspect 50/50 mixture of ethylene glycol		
Test type I and type II dehydrator operation		
a. Gauge calibration		
b. Tower operation		
c. Purge air pressure		
d. Automatic drain operation		
e. Dew point	e. Dew point	
f. Inspect PMS and Tech Manual support		

A-002/105-11	EMERGENCY/SHIP'S SERVICE DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	
Note: Overspeed trip is not required if	Note: Dead Bus Pick-up & Reverse	
DEI has conducted within the last	Power Relay checks are covered under	
ninety days and documentation of	EL.	
satisfactory performance is available.		
Inspect Engine Sump Level	EOSS	
Inspect Turbocharger Sump Level	EOSS	
Inspect Start Air Lubricator Oil Level	EOSS	
Inspect Governor Oil Level	EOSS	
Inspect Lube Oil Sample	A-002/090 R-60D	
Inspect J/W Expansion Tank Level	EOSS	
Inspect "Do not open access" and	NAVSEA/OEM TECHMAN	
Expansion Tank warning "Poison" are		
posted		
Inspect/test fuel valve trip	EOSS	
Inspect Relief Valves	A-002/090 48M-1	
Inspect Flange Shielding	NSTM 505	
Inspect For Exhaust Leaks	EOSS	
Inspect Filters, Strainers	A-002/090 R-5, R-12	
Inspect Governor and Fuel Linkage for	A-002/090 S-3	
Binding		
Inspect J/W Standby Pump	EOSS	
Test Blow In Damper	EOSS	
Test pre-lube system operation	EOSS	
Test Jacket Water High Temp Alarm	A-002/090 A-10	
Test Lube Oil Filter High DP Alarm	NAVSEA/OEM TECH MANUAL	
Test low lube oil pressure alarm	A-002/090 A-7R	
Test Remote Shut Down	A-002/090 S-4	
Test Local Shut Down	EOSS	
Test Barring Device Interlock	A-002/090 S-2	
Test Engine Blow Down	A-002/090 R-13W	
Test Local Pneumatic start	EOSS	
Test Overspeed Trip	A-002/090 A-7R	
Test 80% load for 15 minutes	A-002/090 Q-4	
Inspect for fuel/lube oil leaks	EOSS	
Inspect pyrometer operation	A-002/090 A-9R	
Inspect manometer	A-002/090 A-9R	
Inspect sea water cooling pump	EOSS	

Test high water/generator bearing temp	
alarm	

6651	В	FIMA WORKSHOPS
Component/Sub-Componer	nt	Proposed Procedure
Inspect BFIMA matrix and determine the required		BFIMA Standards
capabilities for the ship		
Inspect the following items as they pertagnish	ain to the	BFIMA Standards
applicable workshops:		
- PMS and Tech Manual Support of all in	nstalled	BFIMA Standards
equipment		
- Test operational condition of all install	ed equipment	BFIMA Standards
(E-stops, cutting fluid etc).		
- Test all installed equipment in their cap	•	BFIMA Standards
- Inspect the monorail layout and ensure	e it supports	BFIMA Standards
the function of the workshop		
- Inspect all gauge calibration (calipers)		CRL
- Inspect correct software/hardware pres		BFIMA Standards
- Inspect correct/adequate cutting fluids and oils are		BFIMA Standards
present		
- Shops		
- Machine Shop		BFIMA Standards
- Welding Shop		BFIMA Standards
- Filter Cleaning Shop		BFIMA Standards
- Engraving Shop		BFIMA Standards
- Sheet Metal Shop		BFIMA Standards
- Motor Rewind Shop		BFIMA Standards
- Carpenter Shop		BFIMA Standards
- Valve Shop		BFIMA Standards
- Internal Combustion Engine Shop		BFIMA Standards
- Pipe Shop		BFIMA Standards
- Hydraulic Shop		BFIMA Standards
- Shipfitting Shop		BFIMA Standards
- AC&R Shop		BFIMA Standards
- Pump Shop		BFIMA Standards

5140 AIR COND		ITIONING PLANTS
Component/Sub-	-Component	Proposed Procedure
CENTRIFUGAL UNITS (R-1	14, R-236fa)	
RECIPROCATING UNITS (I	R-12, R-134a)	
(check items below as application	able)	
Note: Some units are not equi	ipped with isolation	Note: Applicable MRCs are
valves for pressure testing. T	ransferring a large	used as guides to demonstrate a
amount of refrigerant would b	be required to test and is	particular component's
not advisable. For these insta	allations, switch	performance. Some MRCs may
operation will be accomplished	ed by operational means	not be accomplished in their
(e.g., securing/aligning s/w, to		entirety.
pump on/off, turning the c/w	pump on/off).	
Inspect Tech Manual / EOSS	support	NSTM 516
		NAVSEA/OEM Tech Manual
Inspect PMS support		5140/010 (R-12)
		5140/012 (R-134a)
		5140/805 (R-12 & R-134a)
Inspect operating/safety inst	ructions are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5140/010 M-4R
		5140/012 M-4R
Inspect material condition		5140/805 R-2
Inspect compressor oil level, o	oil sample	5140/010 R-9D
	_	5140/012 R-9D
		EOSS
Inspect moisture indicators		5140/010 W-1R
-		5140/012 W-1R
Inspect hermetic motor sight	glass	N/A
Inspect gauge calibration		CRL
Verify calibration & operatio (236fa)	n of high pressure switch	N/A
Verify calibration & operation (236fa)	of pressure transducers	N/A
Inspect oil accumulator press	ure (236fa)	N/A

Test safety/control pressure switch device settings	5140/805 R-5
and operation	5140/010 R-4
High pressure safety/control switch	5140/012 R-4
Low pressure safety/control switch	
Water pressure failure safety switch	
Oil failure/low oil pressure/differential oil pressure	
switch	
Oil temperature safety switch	
Compressor low pressure control switch	
Chill water pressure/differential flow switch	
Low refrigerant temp switch	
Chill water operating/low temp switch	
Thermostatic Expansion Valve (TXV)	
Inspect/test for system leaks (refrigerant/oil/water)	5140/805 R-2/8
	5140/010 S-1R, R-7
	5140/012 S-1R, R-7
	NSTM 516 Sec. 3
Inspect for compressor shaft seal leaks	NSTM 516 Sec. 3
Inspect coupling guard	OPNAVINST 5100.19
	NAVSEA/OEM Tech Manual
Operate/test unit, verify operating parameters,	5140/805 R-6/7/9/10
Test capacity control system operation (pressure,	5140/010 A-1/5/7/8
temperature)	5140/012 A-1/5/7/8
Test current limiter, electronic control module (as	EOSS
applicable)	NAVSEA/OEM Tech Manual
Verify operation of Pre-Rotational Vanes (PRV) & Hot	
Gas By-Pass Valve (HGBP) (centrifugal units)	
Inspect capacity control external pneumatic vent	
connection for proper venting (applies only to Carrier	
compressors equipped with hydraulic cap control)	
Test Water Regulating Valve (WRV)	
Test compressor suction and discharge valves	5140/805 R-5
(reciprocating units)	5140/010 R-5
-	5140/012 R-5
Inspect/test chill water pump	NSTM 503, GSO 503
Bearing lubrication	EOSS
Operating parameters	NAVSEA/OEM Tech Manual
Mechanical seal leakage	OPNAVINSTR 5100.19
Pump discharge check valve seat tightness	
Coupling guard	
Couping guard	

Inspect Chill Water Expansion Tank	5140/010 24M-1
Operating level	5140/012 24M-1
Filling air gap	NSTM 516, 533
Hose connection warning sign	GSO 602
Relief valves and vacuum breakers	EOSS
Inspect sea water system & controls	5140/805 R-2/4/8
Operate emergency cooling water reducing station	5140/010 Q-1R, Q-2R, S-2R, A-
Reducing valve and station pilot valve sensing	3R, R-1/2/8D/12
line strainer	5140/012 Q-1R, Q-2R, S-2R, A-
Seawater regulating valve	3R, R-1/2/8D/12
Condenser (O&I as required)	5000/015 (A or R checks as
Zinc anodes (O&I as required)	applicable to installation)
Headers, tube sheet, divider plate (O&I as	NSTM 516
required)	EOSS
Strainers (Hellan, Y, Duplex) (O&I as required)	NAVSEA/OEM Tech Manual
Inspect/test sea water pump (as applicable)	NSTM 503, GSO 503
Operating parameters	EOSS
Bearing lubrication	NAVSEA/OEM Tech Manual
Mechanical seal leakage	OPNAVINSTR 5100.19
Pump discharge check valve seat tightness	
Coupling guard	
Inspect resilient mounts	5140/010 A-4R
	5140/012 A-4R
	NAVSEA S9073-A2-HBK-010
Inspect grounding straps	NSTM 300
Inspect flexible hoses	5140/010 A-6
	5140/012 A-6
	5000/009 A-1/2
	5000/014 A-1/2
Inspect vent exhaust ducting terminal (flow, location,	NSTM 516 Sec 4
indicators and alarms)	
Inspect cylinder stowage racks	NSTM 516
•	GSO 516, 671
Inspect replacement refrigerant charge	GSO 516
Inspect lube oil filter/strainer (O&I as required)	5140/010 R-6
·	5140/012 R-6
Inspect dehydrator (O&I as required)	5140/010 A-2R, R-3
• • • • • • • • • • • • • • • • • • • •	5140/012 A-2R, R-3

Inspect/test refrigerant Purge and Pump Out (PPO)	A/C& R Advisory #32
unit/Refrigerant Recovery Unit (RRO)	5140/010 A-2R, R-4
Moisture indicator	5140/012 A-2, R-4
Oil level	NAVSEA/OEM Tech Manual
Belt drive & belt guard (tension & condition)	
Compressor cycling (high pressure) switch	
Material condition (O& I as required)	
Dehydrator cartridge (O&I as required)	
Verify halocarbon monitor installation is compatible	NSTM 516
with refrigerant type. Test halocarbon monitor	OPNAVINST 5100.19
	GSO 516
Inspect for non-condensable gases (as required by	NSTM 516
when compressor discharge pressure cannot be	
maintained with WRV)	

5161	REFRIC	GERATION PLANTS
Components/Sub-Components		Proposed Procedure
Inspect Tech Manual / EOSS supp	port	NSTM 516
		NAVSEA/
		OEM Tech Manual
Inspect PMS support		5161/001 (R-12)
		5161/005 (R-134a)
		5161/800 (R-12 & R-134a)
Inspect operating/safety instructi	ons are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5161/001 M-2R
		5161/005 M-2R
Inspect compressor oil level, oil sample		5161/001 R-12D
		5161/005 R-12D
		EOP
		NAVSEA/OEM Tech Manual
Inspect moisture indicators		5161/001 W-1R
		5161/005 W-1R
Inspect capacity control external pneumatic vent		NSTM 516
connection for proper venting (applies only to Carrier		NAVSEA/OEM Tech Manual
compressors equipped with hydraulic cap control)		
Inspect prerotational vane operati	on and controls	NSTM 516
_		NAVSEA/OEM Tech Manual
Inspect gauge calibration		CRL

Test safety/control pressure switch device settings	5161/800 R-4
and operation	5161/001 18M-2, 18M-4, U-3/4
High pressure safety/control switch	5161/005 18M-2, 18M-4, U-3/4
Low pressure safety/control switch	NSTM 516
Water pressure failure safety switch	NAVSEA/OEM Tech Manual
Oil failure/low oil pressure/differential oil pressure	THE SELECTION FROM NUMBER
switch	
Compressor low pressure control switch	
Chill water pressure/differential flow switch	
Low refrigerant temp switch	
Chill water operating/low temp switch	
Thermostatic Expansion Valve (TXV)	
Inspect/test for system leaks (refrigerant/oil/water)	5161/800 R-5
	5161/001 S-1R
	5161/005 S-1R
	NSTM 516 Sec. 3
Inspect for compressor shaft seal leaks	NSTM 516 Sec. 3
Inspect coupling guard	OPNAVINST 5100.19
	NAVSEA/OEM Tech Manual
Inspect drive belts and belt guards	5161/800 R-5
	5161/001 18M-1
	5161/005 18M-1
Operate/test unit, verify operating parameters, and	5161/800 R-6
verify capacity control system operation	5161/001 18M-2
	5161/005 18M-2
	EOP
	NAVSEA/OEM Tech Manual
Test compressor suction and discharge valves	5161/800 R-4
	5161/001 U-1
	5161/005 U-1
Test/verify evaporator pressure regulator (EPR) and	5161/800 R-6
water regulating valve (WRV) setting and operation	
Inspect for non-condensable gases (as required by	5161/001 Q-5R
when compressor discharge pressure cannot be	5161/005 Q-5R
maintained with WRV)	
Test/verify refrigeration room door safety device,	5161/001 S-4R
inspect door seals	5161/005 S-4R
Inspect gravity type cooling coils for excessive frost	NSTM 516 Sec 4
build-up	
Inspect drip trough heating coils/cables and indicator lights	NSTM 516 Sec 4
Inspect refrigerator room recirculating fans and	GSO 516
indicator light, verify damper operation	NSTM 516 Sec 4

Inspect sea water system	5161/800 R-3
Condenser	5161/001 S-3R, Q-4R, R-13D
Zinc anodes (O&I as required)	5161/005 S-3R, Q-4R, R-13D
Headers, tube sheet, divider plate (O&I as	5000/015 (A or R checks as
required)	applicable to installation)
Operate emergency cooling water reducing station	NSTM 516
Strainers (Hellan, Y, Duplex) (O&I as required)	EOSS
Reducing valve and station pilot valve sensing	NAVSEA/OEM Tech Manual
line strainer	
Inspect resilient mounts	NAVSEA S9073-A2-HBK-010
Inspect grounding straps	NSTM 300
Inspect flexible hoses	5161/001 A-7/8/10/11
	5161/005 A-7/8/10/11
	5000/009 A-1/2
	5000/014 A-1/2
Inspect vent exhaust ducting terminal (flow, location,	NSTM 516 Sec 4
indicators and alarms)	
Inspect cylinder stowage racks	NSTM 516
	GSO 516, 671
Inspect replacement refrigerant charge	GSO 516
Inspect liquid line strainers and filters (O&I as	5161/001 R-8
required)	5161/005 R-2, R-8
Inspect dehydrator (O&I as required)	5161/001 A-2R
	5161/005 A-2R
Inspect refrigerant recovery unit and vacuum pump	NAVSEA/OEM Tech Manual
Verify halocarbon monitor installation is compatible	NSTM 516
with refrigerant type	OPNAVINST 5100.19
Test halocarbon monitor	GSO 516

8543	PA	ACKAGE CONVEYOR
Component/Sub-Compone	ent	Proposed Procedure
Inspect Tech Manual and EOSS Suppo	rt	
Inspect PMS Support		
Inspect posted operating/safety instruc	ctions (two	
man rule/ do not ride) at each station		
Inspect posted lubrication chart at top	station	
Test for audible warning when starting		
Inspect that all station doors are locked		
Inspect that all station controllers are lo	ocked	
Test door interlock system		
Inspect load/unloader at each station		
Test door cannot close when loader/un	loader is in	
horizontal or 30 deg inclined position		
Test loader/unloader down interlock sw	itch at each	
station below upper most level		
Test jam limit switch at each station		
Inspect safety shields are properly insta	alled	
Test up-over travel switch/device opera		
Test clean out door interlock switch if a	pplicable	
Test down overtravel device and switch	n	
Test indexing feature		
Test E-stop and run/stop buttons at all	stations	
Inspect proper florescent lighting at each	ch station	
Inspect trunk shielding and mounting h	ardware	
Inspect trunk guide rails		
Inspect conveyor trunk for preservation	n/cleanliness	
Inspect all carrier trays are installed and	l tight	
Test all station growlers and phone circ	Test all station growlers and phone circuits are	
functional and headsets are present		
Inspect conveyor has been load tested within the last		
five years to include weight test data		
Inspect speed reducer is filled to proper level with oil		
Inspect drive, driven and carrier chains are properly		
tensioned		
Test bite panel for correct components operation	Test bite panel for correct components and proper operation	
Inspect motor controller for loose leads	s. posted	
placards, grounds and correct fuses	•	
pracards, grounds and correct ruses		

Inspect drive machinery for missing/loose components

8543		DUMBWAITER
Component/Sub-Compo	onent	Proposed Procedure
Inspect Tech Manual and EOSS Sup	port	
Inspect PMS Support		
Inspect posted operating/safety inst station	ructions at each	
Inspect posted lubrication chart at to	op station	
Inspect trunk bi-parting doors		
Inspect machinery access cover bolt	ts & nuts	
Inspect machinery oil level		
Inspect hoist machinery mounting ha	ardware	
Inspect hoist drum		
Inspect hoist wire rope and end fitting	ngs	
Test slack rope device and limit swit	•	
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch	ch	
Inspect car broken rope device		
Inspect car bi-parting door assembly	,	
Inspect car for missing components		
Test lower level trunk bi-parting doo	rs and limit	
switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when		
installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and		
cleanliness		
Inspect guide rails		
Test each control station E-stop but	ton	

5331 POTABLE WATER PUMPS		RLE WATER PUMPS
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual / EOSS Support	ort	EOSS NAVSEA/OEM Tech Manual
Lucia est DMC Commont		
Inspect PMS Support		5331/800
Inspect Gauge Calibration		CRL
Inspect Transducer Calibration		CRL
Inspect Coupling Guard		OPNAVINST 5100.19 NAVSEA/OEM Tech Manual
Test local & remote start/stop func	tions of potable	EOSS
water pump and priming pump	1	5331/800 R-2/3
Inspect potable water pump and pri	iming pump	EOSS
operation/design discharge pressur		5331/800 R-2/3
bearing temps, etc.		NSTM 503
		NAVSEA/OEM Tech Manual
Inspect reduced pressure, vacuum double check valve backflow preve		5331/800 R-4/5/6
Inspect packing/mechanical seal leakage		NSTM 503
Inspect for dissimilar metals (faster		NSTM 075
Inspect foundation and resilient mo	ounts	5331/800 R-2
		NAVSEA S9073-A2-HBK-010
		NSTM 300, 510
Inspect all flex hoses are properly t	ested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect grounding straps		NSTM 300
Test potable water pump pressure	switch	N/A

5331	WATER HEATERS	
Component/Sub	-Component	Proposed Procedure
Inspect Tech Manual and EO	Inspect Tech Manual and EOSS Support	
Inspect PMS Support		n/a
Inspect gauge calibration		CRL
Inspect relief valve test data		5000/013 72M-2
Inspect relief valve drain piping		NAVSEA/OEM TECH MANUAL
Inspect cold water inlet pipe for check valve		NAVSEA/OEM TECH MANUAL
Test safety thermostatic swit	ch	NAVSEA/OEM TECH MANUAL
Test over-temp safety device		NAVSEA/OEM TECH MANUAL
Inspect lagging condition	Inspect lagging condition	
Inspect for steam / water leaks		NSTM 505
Inspect Temp Reg Valve for l	ocking device	NAVSEA/OEM TECH MANUAL
Inspect heater foundation		NAVSEA/OEM TECH MANUAL
Test water temp at basin/spig	got	NSTM 533

6641	F	FAN ROOMS
Component/Sub-Cor	nponent	Proposed Procedure
Inspect deck condition		GSO 509, 512, 528, 670
- No standing water		GSO 509, 512, 528, 670
- Deck rusted / exfoliated		GSO 509, 512, 528, 670
- Deck drain not installed		GSO 509, 512, 528, 670
<ul> <li>Deck drain missing, not secured or inoperative</li> </ul>	within deck socket	GSO 509, 512, 528, 670
Inspect deck/bulkheads have no	painted over rust	GSO 509, 512, 528, 670
Inspect lighting is operative and o	covers installed	GSO 509, 512, 528, 670
Inspect adequate lighting present	in space	GSO 509, 512, 528, 670
Inspect vent duct condition		GSO 509, 512, 528, 670
- Access covers present		GSO 509, 512, 528, 670
- Access cover fasteners not ruste	ed/missing	GSO 509, 512, 528, 670
- Duct interior is clean		GSO 509, 512, 528, 670
Inspect correct vent/piping system	n labeling	GSO 509, 512, 528, 670
Inspect fan motor installed correct	tly (flow)	GSO 509, 512, 528, 670
Inspect filters are clean and can b	e easily removed	GSO 509, 512, 528, 670
Inspect filter DP gauge is operative	ve	GSO 509, 512, 528, 670
Inspect vent heating element is operative and not deteriorated		GSO 509, 512, 528, 670
Inspect cooling coils are clean		GSO 509, 512, 528, 670
Inspect thermostatic controls are connected and operational	calibrated,	GSO 509, 512, 528, 670
Inspect the cooling coil drain is p drain and is not clogged	iped to the deck	GSO 509, 512, 528, 670
Inspect the proper color coding of piping		GSO 509, 512, 528, 670
Inspect that all hand wheels are p	Inspect that all hand wheels are present	
Inspect for damaged / missing lagging		GSO 509, 512, 528, 670
Test the C/W or steam solenoids are operational		GSO 509, 512, 528, 670
Inspect for chilled water / steam leaks		GSO 509, 512, 528, 670
Inspect for bull's eye and CCOL in space		GSO 509, 512, 528, 670
Inspect for any unauthorized stow	ved material	GSO 509, 512, 528, 670
Inspect for any unauthorized flam	mables	GSO 509, 512, 528, 670
Inspect the filter cleaning shop		

5351	STEAM RISER	and COPPER SEL PIPING	RVICE STEAM
Component/Sub-Compo	nent	Proposed 1	Procedure
Inspect Gauge calibration		CF	RL
Inspect PMS Support		5000	/013
Inspect warning placard posted – wa pressure before disconnecting	rning bleed	SI	В
Inspect piping/valve condition and o	peration	NSTN	A 505
Inspect protective cover		NSTN	A 505
Inspect relief valve for test data		5000/013	3 72M-2
Inspect overall area preservation		6300/0	01 S-1
Inspect ship has reviewed NAVSEA Wash DC R		NAVSEA	Wash DC
130557Z FEB 01 concerning copper piping		R130557	ZFEB01
Inspect the ship has established an inspection		NAVSEA	Wash DC
program IAW NAVSEA message		R130557	ZFEB01
Inspect - Conduct a walkthrough of all copper service			
steam piping to check for leaks IAW	NAVSEA	NAVSEA	Wash DC
message		R130557	ZFEB01

5842/A-262	STERN GATE	
Component	/Sub-Component	Proposed Procedure
Inspect Tech Manual support		NSTM 584, 556
		NAVSEA/OEM TECH
		MANUAL
Inspect PMS support		A-262/035
		A-262/005
		A-262/025
		H-307/002
Inspect operating/safety	instructions are posted	NSTM 584, 556
		NAVSEA/OEM TECH
		MANUAL
		OPNAVINST 5100.21
	connections are labeled and	NAVSEA/OEM TECH
lube chart installed		MANUAL
Inspect oil level, oil sam	ple, bring system up to	A-262/035 Q-2R, R-13M, S-1
normal operating temps/	pressures	A-262/025 Q-3R, R-13M, A-2
-		A-262/005 Q-2R, R-3M, A-5
Inspect Local Control Pa		A-262/035 S-1
communications, operati	on)	A-262/025 A-2
-		A-262/005 A-5
Inspect gauge calibration	1	CRL
Inspect filter indicators		A-262/025 R-4
		A-262/025 R-4
		A-262/005 R-4
	sting is within periodicity and	A-262/035 24M-1
conduct in-place verifica	tion of relief valve setting.	A-262/025 24M-2 & 24M-3
		A-262/005 24M-1 & 24M-2
Inspect all flex hoses are	properly tested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Test safety switches/inte		A-262/035 S-1
installation (up limit; up		A-262/025 A-2
down; sea force; dead-m	an switch; E-stop; slack	A-262/005 A-5
rope)		
Inspect, operate & test h	ydraulic pump	
- foundation condition		NSTM 503
	ting is within periodicity and	A-262/035 24M-1
conduct in-place verifica	tion of relief setting	A-262/025 24M-2 & 24M-3
		A-262/005 24M-1 & 24M-2

- leaks, mech seal	NSTM 503, 556
- filter indicators	A-262/035 R-4
	A-262/025 R-4
	A-262/005 R-4
- test HPU low oil level alarm & light	N/A
Operate gates (upper & lower)	
- Cycle gate open/closed from all stations	A-262/035 S-1
	A-262/025 A-2
	A-262/005 A-5
- Record time required to open/close gate	A-262/035 S-1
2 2 June 10 of 10 of 20	A-262/025 A-2
	A-262/005 A-5
- Test stern gage closure emergencyoperator (e.g.,	NAVSEA/OEM TECH
pnuematic, hand pump, etc.)	MANUAL or Local Procedure
Inspect rail bolts	NAVSEA/OEM TECH
mspeet rain botts	MANUAL
Inspect gate locking device (e.g., dogs)	A-262/035 S-1
Inspect gate focking device (e.g., dogs)	A-262/025 A-2
	A-262/005 A-5
Inspect ram and track condition (e.g. cylinder side	A-262/035 Q-1
plates)	A-262/025 Q-1
praces)	A-262/005 Q-1
Drift Test (e.g. per FTSCL tech, applies to certain ram	A-262/035 R-2
packing designs)	A-262/025 R-2
	A-262/005 R-2
Inspect gate seal for deterioration & leakage	H-307/002 S-1R
inspect gate som for deterioration to remange	NAVSEA/OEM TECH
	MANUAL
	WELL DECK MANUAL
Inspect gate connecting link welds, stern gate	A-262/035 24M-2
structure	A-262/025 24M-4
	A-262/005 24M-4
	H-307/002 S-1R/A-3R
Inspect and operate LCAC extension fendering	N/A
system	17/11
Inspect emergency rigging. Cycle operate emergency	H-307/002 S-1R, A-1R/2R
winch. Conduct visual inspection of chain/ sheaves/	11 30 7 002 5 119,11 110 210
shackles - DO NOT RIG.	
Test: Conduct underway operational test during	PMS/ NAVSEA/OEM TECH
ballast/deballast demonstration	MANUAL/LOCAL
	PROCEDURE

A-702/020-61	DEBALLAST COMPRESSORS	
Component/Sub-C	omponent	Proposed Procedure
Inspect Tech Manual and EOSS Support		NAVSEA/OEM TECH
		MANUAL
		EOSS
Inspect PMS Support		A-004/161
Inspect Gauge Calibration		CRL
Inspect operating/safety instru	ctions are posted	NAVSEA/OEM TECH MANUAL
Inspect compressor oil level and	d oil samples	NAVSEA/OEM TECH
	1	MANUAL
		NSTM 262
Inspect all relief valve testing is	within periodicity	A-004/161 54M-1
Inspect the seawater cooling sy	stem	NAVSEA/OEM TECH
		MANUAL
		EOSS
Inspect installed alarm panel op	eration	NAVSEA/OEM TECH
		MANUAL
		EOSS
Test compressor safety switched	es	A-004/161 S-1
a. low lube oil pressure cuto	ıt	A-004/161 S-1
b. High air pressure cutout		A-004/161 S-1
c. High temperature lube oil	shutdown	A-004/161 S-1
d. High temperature lube oil	alarm	A-004/161 S-1
e. Dirty air filter alarm		A-004/161 S-1
f. Dirty air filter cutout		A-004/161 S-1
Test operational remote/local s	tart/stop /Controller	EOSS
Test check valve in the dischar	ge line	A-004/161 A-2
Test unloader valve		A-004/161 A-2
Inspect de-ballast air header va	lves	NAVSEA/OEM TECH
		MANUAL
		EOSS
Test header pressure can be ma	intained	NAVSEA/OEM TECH
		MANUAL
		EOSS
Test the discharge pressure		NAVSEA/OEM TECH
		MANUAL
		EOSS

Test: Conduct underway operational test during	NAVSEA/OEM TECH
ballast/deballast demonstration	MANUAL
	EOSS

#### AUXILIARIES (AX) UNDERWAY DEMO PHASE

[ LPD CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION	
Component/Sub-Con	nponent	Proposed Procedure
Test Operate Anchor Windlass	s with Load	A-005/418 U-4 5811/802 R-10
Test Mechanical Handbrake		A-005/418 U-4 5811/802 R-10
Inspect Servo/Replenishment a Pressures during wildcat opera		A-005/418 U-4 5811/802 R-10
Inspect Anchor drops from the	e hawsepipe	A-005/418 U-4 5811/802 R-10
Test Magnetic brake		A-005/418 U-4 5811/802 R-10
Inspect motor amperage reading	ngs	A-005/418 U-4 5811/802 R-10

5600 / 5611	STEERING DEMONSTRATION	
Component/Sub-C	omponent	Proposed Procedure
Inspect proper fluid levels		NAVSEA/OEM TECH
		MANUAL
Inspect correct Servo/Replenish	nment pressures	5611/817 R-3
Test - Demonstrate timed rudder swing checks/		A-001/240 R-5
blocking valve test Ahead (as per provided		NSTM 562
procedure)		INSURV NOTE
Test - Demonstrate timed rudder swing checks/		A-001/240 R-5
blocking valve test Astern (as per provided		NSTM 562
procedure)		INSURV NOTE
Inspect for dynamic rudder split from helm indicator		n/a

5311	WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS	
Component/Sub-Co	mponent	Proposed Procedure
Note: Pre-U/W - AX to verify di operational, calibration & safety	relief valves are	Note: Pre-U/W - EL will inspect salinity panel & dump valves.
within periodicity. Detailed mate normally conducted during u/w	*	
Inspect PMS and Tech Manual s		5311/014 5311/805
Inspect gauge calibration		CRL 5311/805 R-1
Test flow meter		NAVSEA/OEM TECH MAN
Inspect evaporator shell (sight g		5311/805 R-1
and scale buildup) & feed heater		
Test interlock device between powater valves	otable water and feed	NAVSEA/OEM TECHMAN
Inspect feed pump (labeled, pack	ting gland,	5311/805 R-1
foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-1
Inspect distillate pump (labeled, foundation, seal / gland cavity)	packing gland,	5311/805 R-1
Inspect brine pump (labeled, pac foundation, seal / gland cavity)	king gland,	5311/805 R-1
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-1
Inspect flexible hose condition and test tag		5000/009 A-1/A-2 5000/014 A-1/A-2
Inspect feedwater strainer (foundation and basket)		5311/014 R-8
Inspect pipe labeling and lagging		NSTM 505/635
Test - Demonstrate water production capability during the 4 Hour Water Production Demonstration		NAVSEA/OEM TECHMAN

# ELECTRICAL (EL) PRE-UNDERWAY PHASE LPD1/7/14

EL-005	SHIPS SERVICE TURBINE GENERATORS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test Reverse Power Relays A-2R		A-2R
Test Parallel Ope	eration	EOP
3241/3121	EMERGENCY DIESEL GENERATOR	
CC	COMPONENT/SYSTEM PROPOSED PROCEDU	
Dead Bus Pick-u	p	Locally generated procedure/PMS
	400 HERTZ MOTOR GENERATOR SETS	
CO	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Split and Pa	rallel Operation	EOP
EL-031	TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANEL	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test Navigational Lighting Panel.		R-2
Measure insulation resistance of Signal Lights.		Q3
Measure insulati	Measure insulation resistance of Navigational Q-3 Lights.	
4331	ANNOUNCING SYSTEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test General, Chemical, and Collision Alarms from all stations		Q-1R
Test 1MC from all stations		Q-1R
Test 5 MC Operation		Q-2R
Measure speaker group insulation resistance.		A-1

Test 6MC Operation		Q-1R
Test 21MC Operation		Q-1R
4751	DEGAUSSIN	IG SYSTEM
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct Linear	ity Test	Q-1
Conduct groun	d test.	M-2
Inspect Degaus	ssing Folder	NAVSEA TECH MANUAL
EL-010	AUTOMATIC BUS TRA	ANSFER EQUIPMENT
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Test all Engine	ering ABTs.	S-3R/S2
Test all remaining ABTs (day 2)		S-3R/S2
4371	EVAPORATORS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test dump valve operation		S-17
Test alarm settings		S-17
4373	WIND INDICATING SYSTEM	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test System For Proper Operation		R-1M
5081	81 THERMAL IMAGING SURVEY	

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Commence Thermal Imaging Throughout The Ship NOTE: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification	R-1 / R-2

#### ELECTRICAL (EL) UNDERWAY PHASE

**NOTE**: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

#### (INSPECT) FUSE BOXES

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.2.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 – 4.8.2.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.2
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES
	NSTM 300 – 2.1.4
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility	GS0 300D
for maintenance, repair, renewal of fuses, and testing?	
(INSPECT) BATTLE LANT	ERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1	
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000	
Were lanterns inoperative?	NSTM 330 – 3.6.2	
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8	
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2	
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2	
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3	
(INSPECT / TEST) SHORE POWER SYSTEM		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Is shore power being properly rigged?	NSTM 320 – 2.2.7	
Did shore power shunt trip interlocks trip its associated breakers when tested?	IAW PMS IAW EOSS GSO 320D	
Was shore power system cabling between the receptacles and the ship's switchboard insulation resistance within EOSS or PMS limits?	NSTM 320 – 2.2.7.2 IAW EOSS IAW PMS	
W/ 1indication limbar constitution in	NSTM 300	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9	
Were warning signs posted?	GSO 070H	
Was there pigtail stowage installed?	GSO 320D	

Does the shore power system meet the current	GSO 320D
standards:	GSO 320D
- Have a Viking Connector System.	
- Have AQB-LF 400 Amp Circuit Breaker with	
shunt trip.	
- Have phase sequencing and phase orientation	
devices.	
- Have power available lights at switchboard and	
shore power connection box.	
Have installed ammeter and selector switch to	
monitor total shore power current.	
(INSPECT) CATHODIC PROTECT	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the installed Cathodic Protection System	GSO 633C
operative and adjusted IAW PMS?	IAW PMS
Were the rudder grounding straps made of 1-1/2 inch	NSTM 633 – 3.3.2.7
Wide braided copper and brazed to the rudder stock	GSO 633C
and the hull?	
(INSPECT) CATHODIC PROTECT	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Has the system been turned off for greater that 15 days?	GSO 633G
Were shaft grounding brushes correctly installed?	NSTM 633 – 3.3.2.6
The share grounding crusics correctly instance.	ICCP TECH MANUAL
Shaft grounding brushes exhibit full contact with the	NSTM 633 – 3.3.2.6
slip ring?	ICCP TECH MANUAL
Was brush rigging correctly installed?	NSTM 633 – 3.3.2.6
(INSPECT / TEST) ALARM S	YSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test alarm switchboards and panels.	IAW PMS

(INSPECT) ORDER/INDICATING/METERING SYSTEMS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B IAW PMS
MOTOR CONTROLLER	RS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 300-5.2.4 NSTM 302-3.3.2
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1 GSO 302F
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	EQUIPMENT TECH MANUAL AND DRAWINGS
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G
Were switches protected against inadvertent activation?	GSO 070H
Were controllers with multiple power sources properly labeled?	GSO 305C
Were motor foundations properly preserved?	GSO 631J
Was resilient mounted electrical equipment grounded to the ships hull through ground straps?	NSTM 300-4.3.3 NSTM 302-2.4.1.1.1 DOD-STD-2003 MIL-STD-1310
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244-1.7.7

Were coupling, belt, or chain guards effective?	NSTM 302-2.4.1.1 GSO 070H
Were controllers and remote operating stations properly labeled?	GSO 305C
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D
WORKBENCHES	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
<ul> <li>Was the electrical workbench properly installed, to include: <ul> <li>Front panel, Side Panel, Back panel and Kneehole Insulation.</li> <li>Disconnect Switch properly installed and labeled.</li> <li>48-inch ground strap for every 4 feet of workbench.</li> <li>5KVA isolation transformer installed.</li> <li>Safety Placards.</li> </ul> </li> </ul>	NSTM 300 APPENDIX H GSO 320E GSO 665 GSO 650
(INSPECT) ELECTRICAL S	SAFETY
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G
Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
Have electronic and electrical shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1-3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS

Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3/2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
Were plastic-cased bunk light reflectors and toggle switches properly grounded?	NSTM 300-2.2.1.4
(INSPECT) CABLING	Ţ
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	GSO 304E
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1
Were cables improperly spliced?  Were cables protected against being handholds or being stepped on?	NSTM 300-4.6.8

Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Was cabling on weather decks and engineering spaces deteriorated?	NSTM 300 TABLE 300-4-4 GSO 304C
Were cable stuffing tubes properly assembled ?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310
(INSPECT) BUS TRANSFER E(	QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
<ul> <li>Were ABT's installed for the following:</li> <li>Emergency Lighting.</li> <li>IC Switchboard and panels.</li> <li>Steering power panel.</li> <li>Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control.</li> <li>Fire pumps.</li> <li>Fire extinguishing auxiliaries and controls.</li> </ul>	NSTM 320-1.3.2 GSO 320D
(INSPECT) BUS TRANSFER EO	QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2- 234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from being closed at the same time?	NSTM 300-4.8.4.2
Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4

Were Automatic Bus Transfer Devices operating	NSTM 300-4.8.4.2
properly	NSTM 320-1.3.2.1 GSO 300J 320D
(INSPECT) SHIP TELEPHONE	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTORS	S
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300
Was resilient mounted electrical equipment grounded to the ships hull through ground straps?	NSTM 300
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CAB	BLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1

	D OD OWD 2002
	DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G
Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION I	EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely mounted?	NSTM 300-4.3.3 GSO 300D
Electrical distribution equipment have loose or missing covers?	NSTM 300-4.3.3
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3

Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug could not be removed from an energized receptacle?	NSTM 320-1.4.1
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience outlets labeled to prevent equipment being used with the wrong frequency?	GSO 320
SOUND POWERED TELEPHONE	SYSTEMS
COMPONENT/SYS TEM	PROPOSED PROCEDURE
Were Sound Powered Telephone Circuit Amplifiers missing or inoperative?	NSTM 430-3.1
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2
(INSPECT) LIGHTING	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were darken ship switches operative and adjusted properly?	NSTM 330-3
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2

Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
Were plastic-cased bunk light reflectors and toggle switches properly grounded?	NSTM 300-2
(INSPECT) BATTERY LOCK	KERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	5100.19 C0904
Is each locker provided with:  - Rubber Gloves and Aprons.  - Goggles.  - Two battery fillers.  - Two battery test sets.  - One soda water container.	5100.19 GSO 313F
Does the locker contain an eye wash station and a deluge shower?	NSTM 313-2
Are battery storage racks greater than 12 inches between tiers?	GSO 313F
(INSPECT) BATTERY LOCK	KERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were battery hold-down clamps provided?	GSO 313F
Are Acids stored in appropriate protective containers?	GSO 313F
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F
(INSPECT) MISCELLANEOUS EQ	UIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1

Is hardwired electrical equipment permanently mounted?	NSTM 330-1
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5
Were Surge Protectors of the approved type?	3000 / A-4R
Are portable electric device power cords properly tinned?	3000 / Q-1R
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B
Was accommodation ladder lighting of the proper typed? (Not to use dress ship lights attached to gangway handrails)?	NSTM 330-1
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?	NSTM 330-1-
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?	
	NSTM 330-1
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?	
	IAW PMS

Was UPS electronic cabinet bottom sealed to prevent	GS0 300D/324D
water of oil entry from lower level engine room?	NSTM 300-4

## ELECTRICAL (EL) POST-UNDERWAY

LPD 1/7/14

OPEN AND INSPECT AS REQUIRED BY THE INSPECTION

COMPONENT/SYSTEM	PROPOSED PROCEDURE

Test gauge glass hand easing gear	EOP BGG
Inspect gauge glass normal/emergency lighting	NSTM 221
Inspect bottom blow system material	2210/006 (18M-3R)
Inspect bottom blow valves for leak by	2210/005 (R-4)
Inspect for sliding feet movement	2210/005 (M-1)
Inspect gauges/instruments	CRL/CIL
Inspect Stack Gas Analyzer	NSTM 221
Inspect Periscope	NSTM 221
Inspect smoke pipe expansion joint	NSTM 221
Inspect Boiler Casing and Insulation	NSTM 221
Inspect Sample Coolers	NSTM 220
Inspect drain valve piping	NSTM 221505

MAIN PROPULSION PRE-UNDERWAY PHASE			
			LPD
2210	PROPULSION BOILERS		
Component/Sub-C	Component	Proposed Procedure	
IDLE BOILER:			
Test F/O safety sh	utoff/root valves	2210/006 (R-5, R-6)	
Test F/O Quick Closing Valves		EOP FOS	
Inspect burner lea	nd bends and flange shields	NSTM 505	
Test final control element air locks		F-26 (A-3R)	
Test F/O service tank bulkhead stop valves		LOCAL PROCEDURE	
Test F/O service t	ank Quick Closing valves	LOCAL PROCEDURE	
Test steam smoth	ering system	EOP FBAC	
Test safety valve hand easing gear		2210/006 (24M-2)	
Test remotely close main steam stop valve		5000/005 (A-3)	
Test remotely clos	se auxiliary steam stop valve	5000/005 (A-3)	
ALL BOILERS:	·		
Test boiler water	high/low level alarms	2210/006 (Q-1R, Q-3R)	

2550	2550 MAIN FEED PUMPS	
Component/Sub-Component Proposed Procedure		Proposed Procedure
Test low suction tr	ip and roll over	F-013/089 (Q-1)
Test overspeed tri	p mechanism	EOP MFPT
Test combination of	exhaust/relief valve	5000/013 (72M-1R)
Inspect pump pack	ing gland/mechanical seal	NSTM 503
Inspect flange shie	elds	NSTM 505
Inspect relief valve	es	NSTM 505
Inspect gauges/ins	truments	CRL/CIL
2550	MAIN BOOSTER PUMPS	
Component/Sub-Component Proposed Procedure		
Test low pressure	alarm	F-014/023 (S-2)
Inspect gauges		CRL/CIL
Inspect MFBP		NSTM 302
- motor controller		NSTM 503
- pump motor		
- pump packing gla	and/mechanical seal	
2511	FORCED DRAFT BLOWERS	
Compo	nent/Sub-Component	Proposed Procedure
Test low lube oil tr	ip and roll over	F-002/063 (S-3)

Test speed limiting	g governor	F-002/063 (S-1)
Inspect/Sample lul	be oil	2000/001 (R-1)
Test damper opera	ation	F-002/063 (18M-1)
Test Combination	Exhaust Relief Valve	5000/013 (72M-1R)
Inspect gauges/ins	struments	CRL/CIL
Inspect flange ship	elds	NSTM 505
2610	FUEL OIL SERVICE PUM	PS
Compo	onent/Sub-Component	Proposed Procedure
Test remote shut d	lown (cold plant)	F-004/001 (S-4)
Test Combination Exhaust Relief Valve		5000/013 (72M-1R)
Test Speed Limitin	ng Governor	F-004/001 (Q-1, S-3)
Inspect Electric Fu	el Oil Service Pump	NSTM 302
- motor controller		NSTM 503
- pump motor		
- packing gland/m	echanical seal	
Inspect gauges		CRL/CIL
Flush revolving b	asket strainer	F-044/017 (R-5)
Shift duplex strain	er	EOP FOS
Inspect discharge	relief valve	NSTM 505

2211	BOILER INSPECTION DEVICE	
Component/Sub-Component Proposed Procedure		Proposed Procedure
Test boiler inspection device		2211/002 (M-2R)
Inspect boiler insp	ection device case	2211/002 (R-3)

ADMIN/DOCUMENTATION	
Component/Sub-Component	Proposed Procedure
BW/FW records (last 3 months)	NSTM 220/221
Bottom blow UT records	NSTM 220/221
Soot blow ppg UT records	NSTM 220/221
Soot blow head UT records	NSTM 220/221
Burner barrel hydrotest records	NSTM 220/221

2550	DEAERATING FEED TAN	K
	nent/Sub-Component	Proposed Procedure
Test DFT gauge g	lass hand easing gear	NSTM 255V2
Test D.O.		NSTM 220
Inspect for leaks		NSTM 255V2
Inspect DFT relief	valve	NSTM 255V2
Inspect DFT vacuu	ım breaker	NSTM 255V2
Inspect DFT gauge	e glass	NSTM 255V2
Inspect gauges/ins	struments	CRL/CIL

2550	EMERGENCY FEED PUMP	
Compo	nent/Sub-Component	Proposed Procedure
Demonstrate opera	ation and feed boiler	EOP MFPR
successfully for 10	) minutes	
Inspect for steam/v	vater leakage	EOP MFPR
Inspect pump disch	narge relief valve	NSTM 505
Inspect gauges/ins	truments	CRL/CIL

2320	MAIN ENGINES	
Compo	nent/Sub-Component	Proposed Procedure
Test Main Conden	ser SW Inlet Valve	5000/005 (S-2)
Test Main Conden	ser SW Outlet Valve	5000/005 (S-2)
Test Scoop Injection	on SW Inlet Valve	5000/005 (S-2)
Test Main Circ Pump Emerg Bilge Suction Vlv		E-005/021 (S-2)
Test Main Engine Guarding Valve		5000/005 (S-3)
Test Throttle Valves		5000/005 (S-2)
Inspect Turbine Gla	and Seal Regulating Valve	NSTM 505
Inspect Turbine Gland Seal Dump Valve		NSTM 505
Inspect Turbine Crossover Piping Sentinel Valves		E-700/17 (24M-2)
Test Main Circ Pump Speed Limiting Governor		E-005/021 (Q-4)
Inspect gauges and instruments		CRL/CIL
Inspect Air Ejector	rs	EOP MEAJ
Inspect Drain syste	ems	EOP MD

2410 REDUCTION GEARS	
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Component/Sub-Component	Proposed Procedure
Test Shaft Turning Gear and Locking Device	EOP MEJG
Inspect Sump Level and Lube Oil Condition	2000/001 (R-1)
Inspect Gear Teeth, Lube Oil Spray Pattern, Casing	E-700/017 (R-22)
Interior	
Inspect Attached LO Pump Angle Drive Gear	E-700/017 (24M-6)
Inspect Oil Flow in SFI's	NSTM 241
Inspect Temperature Gauges	CRL/CIL
Inspect Casing Exterior	NSTM 241
Inspect Vent Fog Precipitator	NSTM 241
Inspect Security Devices	NSTM 241
Inspect Piping Systems	NSTM 505
Inspect Flange Shielding	NSTM 505
Dehumidifier	NSTM 241

2990 LINE SHAFT BEARINGS		
Component/Sub-Component		Proposed Procedure
Inspect/Sample lube oil		2000/001 (R-1)
Inspect Sump Drain Valve		NSTM 244
Inspect Seals		NSTM 244
Inspect Thermometers		CRL/CIL
Inspect Lubricator		NSTM 244
Inspect Dip Stick		NSTM 244
Inspect Lock Wires		E-700/017 (R-25)
Inspect Bearing Depth Mic Surface		NSTM 244

2430	STERN TUBE SEALS
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Component/Sub-Component	Proposed Procedure
<b>Test Cooling Water Low Flow Alarm</b>	EOP STC
Test Inflatable Seal	E-012/026 (S-1, S-3)
Inspect Gauges	CRL/CIL
Inspect Cooling Water Piping	NSTM 505
Inspect/shift Cooling Water Strainer/Filter	EOP STC
Inspect underway seal leakage rate	NSTM 244
Inspect LP Air Supply	E-012/026 (S-1, S-3)
Inspect LP Piping/Hoses/Fittings	E-012/026 (S-1, S-3)
Inspect CO2/N2 Piping/Fitting	E-012/026 (S-1, S-3)
Inspect Emergency Flax Packing Kit	E-012/026 (S-1, S-3)

2500	CONTROLS	
Component/Sub-Component		Proposed Procedure
Test EOT Indicator		EOP MEOT
Test RPM Indicator		EOP MEOT
Test Console Alarms and Indicators		EOP MEOT
<b>Test Wrong Direction Alarm</b>		EOP METT

2620	LUBE OIL SYSTEMS	
Component/Sub-Component		Proposed Procedure
Test Main Engine Lube Oil Sequencing		E-010/047 (Q-1)
Test Main Engine Low Lube Oil Alarm		E-010/047 (Q-2)
Inspect Electric Lu	be Oil Pump	NSTM 503
- Motor		
- Flexible coupling		
- Mechanical Seals		
- Valves and piping		
Inspect SLOP Lub	e oil sump level	2000/001 (R-1)

Inspect Steem Luke Oil Dumm (SLOD)	NSTM 503
Inspect Steam Lube Oil Pump (SLOP)	NS 1 M 503
- Turbine	
- Pump	
- Mechanical Seals	
- Valves and piping	
Test combi nation/exhaust relief valve	5000/013 (72M-1R)
Test SLOP speed limiting governor	E-009/070 (Q-1, Q-2)
Inspect attached Main Engine Lube Oil Pump	NSTM 503
- Coupling	
- Mechanical Seals	
Inspect Lube Oil Strainer Baskets and enclosure	EOP LODS
Inspect Flexible hose assemblies	5000/014 (A-1, A-2)
Inspect system flange shields	NSTM 505
Inspect lube oil pump relief valves/test data tag	NSTM 505
Inspect gauges and instruments	CRL/CIL
Inspect Temp Regulating Valve	NSTM 505
Inspect Unloading Valve	NSTM 505
Demonstrate Lube Oil Purifier Operation	EOP LOPO
Inspect Lube Oil Purifier Heater relief valve/test	NSTM 505
data tag	
Demonstrate Lube Oil Purifier Efficiency	NSTM 262

1130	HULL STRUCTURE	
Component/Sub-Component		Proposed Procedure
Inspect Bilges/Angle Irons		NSTM 100
Inspect Deck Plates		NSTM 100
Inspect Equipment Foundations and resilient		NSTM 100
mounts		
Inspect Paint and Preservation		6300/001 (S-1)
Inspect Pipe Brackets/Hangers		A-700/038 (18M-1R)
Inspect Lighting		NSTM 303

3110	GENERATORS	
Component/Sub-Component		Proposed Procedure
Inspect Lube Oil Condition/ Sump Level		2000/001 (R-1,2)
Inspect Lube Oil SFIs		NSTM 241-2.3.8; 244-3.3.6
Inspect Vent Fog Precipitator		NSTM 241-3.2.6

Inspect/Shift Lube Oil Strainer	EOP LOSTG
Airbox Telltale Drains	NSTM 310
Test Alarm Panel	EOP TG
Inspect Gland Seal Operation	EOP TG
Inspect Aux Circ Pump  - Motor  - Controller  - Packing gland/mechanical seal	EOP TG
Inspect Aux Cond Pump  - Motor  - Controller  - Packing gland/mechanical seal	EOP TG
Inspect Aux Air Ejectors	EOP TG
Test Lube Oil Pump Autostart	EOP TG
Test Low Lube Oil Alarm	E-013/124 (S-3)
Inspect Turbine Casing Relief Valve	NSTM 505
Test Overspeed Trip	E-013/124 (Q-1, Q-2)
Test Manual Trip	EOP TG
Test Back Pressure Trip	E-013/124 (A-10, A-11)
Test Auxiliary Condenser SW Inlet Valve	5000/005 (S-2)
Test Auxiliary Condenser SW Outlet Valve	5000/005 (S-2)
Inspect centrafilter	EOP TG
Inspect flange shields	NSTM 505
Inspect duplex oil filter(GOV)	EOP TG
Inspect Aux Condenser sight glass	EOP TG

ICAS	
Component/Sub-Component	Proposed Procedure Accepted Procedure
Verify operational status of each workstation	ICAS Tech Manual

Verify number of required portable data terminals	ICAS Tech Manual
(PDT) and that they are operational	Terris Teen Manaur
Verify number of required portable diagnostic aids	ICAS Tech Manual
(PDA) and that they are operational	
Are any critical system errors shown in the system	ICAS Tech Manual
log?	
Ensure data for at least two routes from actual	ICAS Tech Manual
rounds	
Ensure data from Data Acquisition devices is	ICAS Tech Manual
being received as required	
Verify Demand Data is received and processed	ICAS Tech Manual
accurately	
Verify database data is received and processed	ICAS Tech Manual
accurately	
Ensure router connections are operating properly	ICAS Tech Manual
Ensure remote demand data and database data are	ICAS Tech Manual
available to be viewed.	
Verify all required system links are available	ICAS Tech Manual
Verify all ICAS printers are operational	ICAS Tech Manual
Verify picture book is available for vibration	ICAS Tech Manual
checks	
Verify vibration data is being taken per PMS	ICAS Tech Manual
Verify vibration disc are installed on all equipment	ICAS Tech Manual
Conduct vibration surveys on selected equipment	ICAS Tech Manual
during the full power demonstration	
Inspect all cabinet air filters	MIP 2020 (M-3)
Inspect all ICAS computer equipment	MIP 2020 (A-1R)
Inspect computer internal shocks and fans	MIP 2020 (M-3)

#### MAIN PROPULSION UNDERWAY PHASE LPD

TEAM ARRIVAL		
Component/Sub-Component	Proposed Procedure	
Check applicable equipment for correction of		
deficiencies.		
Tour space, ensure ready for sea.		
MISCELLANEOUS		
Component/Sub-Component		
Inspect Oil Lab, sampling equipment	NSTM 220	
Complete Open and Inspect List and give a copy		
to the Engineer Officer.		
CHELANT TREATMENT SYSTEM		
Component/Sub-Component	Accepted Procedure	
Inspect Spill Locker and inventory	NSTM 220	
Inspect hydrazine locker	NSTM 220	
Inspect injection cabinet	NSTM 220	
Inspect chelant treatment tank and associated	NSTM 220	
equipment		
Inspect eyewash station	6600/002 (Q-8)	
DEMONSTRATIONS		
Component/Sub-Component	Proposed Procedure	
Demonstrate Full Power ahead (1 hour)	PMS/EOSS/POG/9094.1B	
Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS	
Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS	
Demonstrate soot blower operation as soon as	2210 (60M-1)	
possible after underway. Note: Demonstrate soot		
blower head pressure PMS on one rotating and		
one stationary head per boiler while blowing		
tubes.		